



Motive Equipment Startup and Shut Down

Standard Operating Procedure

**REFUSE
DISPOSAL
DIVISION**

Landfill Operations

To properly and safely operate the heavy equipment employed at the landfill, with minimum wear and tear on engine components, the following start up and shut down steps must be followed.

Startup

1. Set all brakes and stops
2. Place and lock the transmission in neutral
3. If engine fails to start within 30 seconds, wait two minutes to let the starter cool
4. Allow a three to four minute cool-down period
5. Warm up engines no more than 15 minutes
6. Check area carefully before moving off

Lockout

1. Shutdown the equipment prior to all breaks and when not in use
2. Before stopping engine, idle at 800 to 1,000 rpm for three to five minutes to let it cool evenly
3. Do NOT turn off the master switch with the engine running
4. Ground all blades, buckets, scrapers, or other moveable parts
5. Set brakes and transmission locks

Consequence of Non-Compliance to Instruction:

- If the master switch is turned off prematurely, parts of the electrical charging circuit can be seriously damaged
- Potential for serious accidents and/or injury
- Increased exhaust emissions and decreased air quality in the work place

Benefit of Compliance to Instruction:

- Increase fuel and operations savings
- Improves the air quality in the work place
- Reduction in excessive wear and tear on engine
- Increased performance between repairs

Environmental Management System (EMS) –ISO 14001

PROCESS MAP #: DO-1.5 / GP-1.0 / CD-1.0

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